

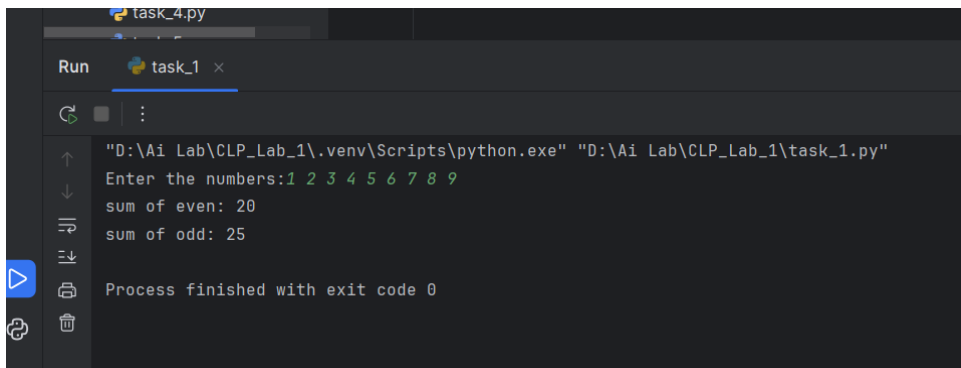
## Task 1: Sum of Odd and Even Numbers

```
numbers = list(map(int, input('Enter the numbers:').split()))

sum_of_odd = 0
sum_of_even = 0

for number in numbers:
    if number % 2 == 0:
        sum_of_even += number
    else:
        sum_of_odd += number

print('Sum of even:', sum_of_even)
print('Sum of odd:', sum_of_odd)
```



```
task_4.py
Run task_1 x
"D:\Ai Lab\CLP_Lab_1\.venv\Scripts\python.exe" "D:\Ai Lab\CLP_Lab_1\task_1.py"
Enter the numbers:1 2 3 4 5 6 7 8 9
sum of even: 20
sum of odd: 25
Process finished with exit code 0
```

## Task 2: Smallest Number from a Set of Numbers

```
numbers = list(map(int, input('Enter the numbers:').split()))

min = numbers[0]

for i in numbers:
    if i < min:
        min = i

print('Smallest number is:', min)
```



```
task_3.py
Run task_2 x
"D:\Ai Lab\CLP_Lab_1\.venv\Scripts\python.exe" "D:\Ai Lab\CLP_Lab_1\task_2.py"
Enter the numbers:9 1 8 2 7 3 6 4 5 5
smallest number is: 1
Process finished with exit code 0
```

### Task 3: Sum of Numbers Divisible by 3 and Not by 5

```
sum = 0
for i in range(50, 101):
    if i % 3 == 0 and i % 5 != 0:
        sum += i

print('Sum is:', sum)
```



### Task 4: Second Highest Number from a Set of Numbers

```
numbers = list(map(int, input('Enter the numbers:').split()))

for i in range(len(numbers)):
    for j in range(len(numbers) - i - 1):
        if numbers[j] < numbers[j + 1]:
            temp = numbers[j]
            numbers[j] = numbers[j + 1]
            numbers[j + 1] = temp

print('Second Highest:', numbers[1])
```

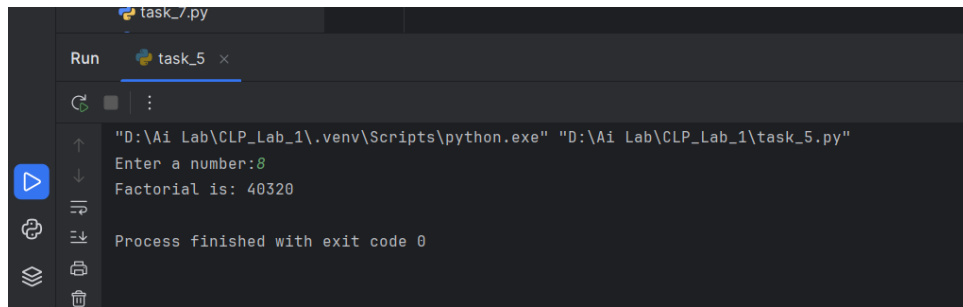


## Task 5: Factorial of a Number Using For Loop

```
n = int(input('Enter a number:'))

num = 1

for i in range(1, n + 1):
    num = num * i
print('Factorial is:', num)
```



The screenshot shows a Python IDE with a file named `task_5.py`. The code is executed, and the output is displayed in the console. The user enters the number 8, and the program calculates the factorial, which is 40320. The process finishes with exit code 0.

```
Run task_5 x
"D:\Ai Lab\CLP_Lab_1\.venv\Scripts\python.exe" "D:\Ai Lab\CLP_Lab_1\task_5.py"
Enter a number:8
Factorial is: 40320
Process finished with exit code 0
```

## Task 6: Fibonacci Series

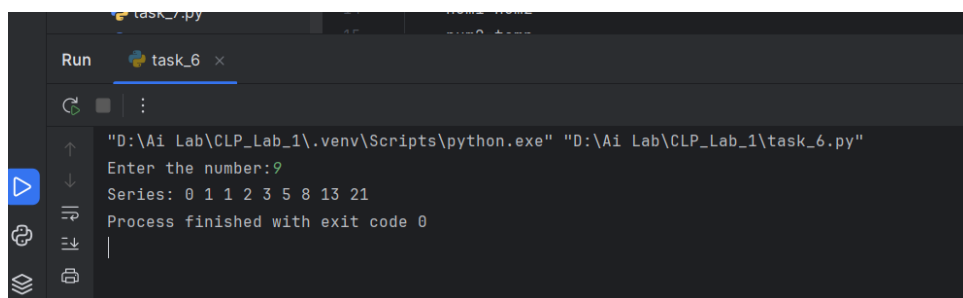
```
n = int(input('Enter the number:'))
num1 = 0
num2 = 1

print('Series:', end=' ')

print(num1, end=' ')
print(num2, end=' ')

for i in range(3, n + 1):
    print(num1 + num2, end=' ')

    temp = num1 + num2
    num1 = num2
    num2 = temp
```



The screenshot shows a Python IDE with a file named `task_6.py`. The code is executed, and the output is displayed in the console. The user enters the number 9, and the program generates the Fibonacci series up to the 9th term, which is 0 1 1 2 3 5 8 13 21. The process finishes with exit code 0.

```
Run task_6 x
"D:\Ai Lab\CLP_Lab_1\.venv\Scripts\python.exe" "D:\Ai Lab\CLP_Lab_1\task_6.py"
Enter the number:9
Series: 0 1 1 2 3 5 8 13 21
Process finished with exit code 0
```

## Task 7: Largest Number Between Two Numbers Using Function

```
num1, num2 = map(int, input("Enter two numbers:").split())

def task_7(num1, num2):
    if num1 > num2:
        return num1
    else:
        return num2

print('Largest Number:', task_7(num1, num2))
```



```
task_7.py
Run task_7 x
"D:\Ai Lab\CLP_Lab_1\.venv\Scripts\python.exe" "D:\Ai Lab\CLP_Lab_1\task_7.py"
Enter two number:15 22
Largest Number: 22
Process finished with exit code 0
```

## Task 8: Sum of Numbers Passed as Parameters

```
numbers = list(map(int, input('Enter Numbers:').split()))

def task_8(numbers):
    sum = 0
    for num in numbers:
        sum = sum + num
    return sum

print('Sum:', task_8(numbers))
```



```
Scratches and Consoles
Run task_8 x
"D:\Ai Lab\CLP_Lab_1\.venv\Scripts\python.exe" "D:\Ai Lab\CLP_Lab_1\task_8.py"
Enter Numbers:1 2 3 4 5 6 7 8 9 10
Sum: 55
Process finished with exit code 0
```

## GitHub Repository

For more details: [https://github.com/sayed-2299/Academic/tree/main/Artificial%20Intelligence%20\(CSE-316\)/CLP\\_1](https://github.com/sayed-2299/Academic/tree/main/Artificial%20Intelligence%20(CSE-316)/CLP_1)